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| PPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO |
|--|-----------------|----------------------|---------------------|-----------------|
| 09/542,884 | 04/04/2000 | Masataka Hamada | 32577-20169.00 | 5975 · |
| 25227 | 7590 11/28/2003 | | EXAMINER | |
| MORRISON & FOERSTER LLP 1650 TYSONS BOULEVARD | | | vo, ru | NG T |
| SUITE 300 | 13 DOOLL VARD | | ART UNIT | PAPER NUMBER |
| MCLEAN, Y | VA 22102 | | 2613 | * |

DATE MAILED: 11/28/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

| | Application No. | Applicant(s) | | |
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| , · · · · · · · · · · · · · · · · · · · | 09/542,884 HAMADA, MASATAKA | | | |
| Office Action Summary | Examiner | Art Unit | | |
| | Tung T. Vo | 2613 | | |
| The MAILING DATE of this communication appeared for Reply | ppears on the cover sheet with the | correspondence address | | |
| A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a re - If NO period for reply is specified above, the maximum statutory perio - Failure to reply within the set or extended period for reply will, by statu - Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b). Status | l. 1.136(a). In no event, however, may a reply be a eply within the statutory minimum of thirty (30) di d will apply and will expire SIX (6) MONTHS fro ute, cause the application to become ABANDON | timely filed ays will be considered timely. m the mailing date of this communication. IED (35 U.S.C. § 133). | | |
| 1) Responsive to communication(s) filed on 29 | September 2003. | | | |
| 2a)⊠ This action is FINAL . 2b)□ Thi | ∑ This action is FINAL. 2b) This action is non-final. | | | |
| 3) Since this application is in condition for allow closed in accordance with the practice under | | | | |
| Disposition of Claims | | | | |
| 4) Claim(s) 1-13 is/are pending in the application | n. | | | |
| 4a) Of the above claim(s) is/are withdr | awn from consideration. | | | |
| 5) Claim(s) is/are allowed. | | | | |
| 6)⊠ Claim(s) <u>1-13</u> is/are rejected. | | | | |
| 7) Claim(s) is/are objected to. | | | | |
| 8) Claim(s) are subject to restriction and | or election requirement. | | | |
| Application Papers | | | | |
| 9)☐ The specification is objected to by the Examir | ner. | | | |
| 10) The drawing(s) filed on is/are: a) □ ac | scepted or b) \square objected to by the | Examiner. | | |
| Applicant may not request that any objection to the | | | | |
| Replacement drawing sheet(s) including the corre | = ' ' | • | | |
| 11)☐ The oath or declaration is objected to by the I | Examiner. Note the attached Offic | e Action or form PTO-152. | | |
| Priority under 35 U.S.C. §§ 119 and 120 | | | | |
| 12) Acknowledgment is made of a claim for forei a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the pri application from the International Bure | nts have been received. nts have been received in Applica iority documents have been recei au (PCT Rule 17.2(a)). | ation No ved in this National Stage | | |
| * See the attached detailed Office action for a list 13) Acknowledgment is made of a claim for domest since a specific reference was included in the formation of the foreign language p | stic priority under 35 U.S.C. § 119 irret sentence of the specification of | P(e) (to a provisional application) or in an Application Data Sheet. | | |
| 14) ☐ Acknowledgment is made of a claim for domes reference was included in the first sentence of | stic priority under 35 U.S.C. §§ 12 | 0 and/or 121 since a specific | | |
| Attachment(s) | | | | |
| 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) | 5) Notice of Informal | ry (PTO-413) Paper No(s) Patent Application (PTO-152) | | |
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DETAILED ACTION

Response to Arguments

1. Applicant's arguments with respect to claims 1-13 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over prompt Fujiwara et al. (US 6,346,949) in view of Lu et al (US 6,252,623 B1).

Re claims 1, 4, and 8, Fujiwara discloses a camera for getting information upon three dimensional shape, comprising: an image taking device (5 of fig. 1) for taking an image of an object within a region (P1-PK of fig. 1) to be photographed; a projector (50 of fig. 1) for projecting a slit light on the region, and a monitor (1 of fig. 1) for displaying the image of the object which the image taking device takes (MX of fig. 3), in which the monitor has a memory (30 of fig. 1) for storing the image of the object the image taking device takes when the projector does not project the pattern of the region (MX of fig. 3); wherein the image taking device takes a projection slit light which is formed on the object within the region by the slit light that the projector projects (GX of fig. 3), and wherein the monitor displays the image, stored in the

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memory of the object, instead of the image of the object the image taking device takes with the projector projecting the slit light on the region (col. 3, lines 1-11). Furthermore, Fujiwara teaches the display or monitor (20 of figs. 1 and 3) displays the stored image of the object from the memory (30 of fig. 1; col. 3, lines 48-58) based upon the controller (10 of fig. 1) incorporate to the input device (40 of fig. 1).

It is noted that Fujiwara does not specifically teach a light which spreads on the region to be photographed and has a predetermined pattern within the spread area as claimed.

However, Lu teaches a light which spreads on the region to be photographed and has a predetermined pattern within the spread area (38, 14, 36, 34 of fig. 2, col. 6, lines 28-42). Therefore, taking the combined teachings of Fujiwara and Lu together as a whole it would have been obvious to one of ordinary skill in the art to incorporate the predetermined pattern light (38, 14, 36, 34 of fig. 2, col. 6, lines 28-42) of Lu into the camera of Fujiwara for the same purpose of illuminating the predetermined pattern light on the object. Doing so would provide the camera system, which is suitable for use on live or moving objects, inexpensive to manufacture and does not require a complex mathematical computations to determine three dimensional object as suggested by Lu (col. 2, lines 45-57).

Re claims 2-3, 5-7, 11-13, Fujiwara further teaches wherein the pattern light is not a uniform light and has a distribution of illuminate (Visible light of fig. 1), and the projection slit pattern which is formed on the object within the region by the pattern light comprises at least one stripe which is slit light; wherein the slit pattern light comprises a colored light (color image) where the color is defined in a range (col. 3, lines 59-67), and wherein the slit pattern which is

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formed on the object within the region by the pattern light comprises a color part (col. 4, lines 1-14).

Re claim 9, Fujiwara further teaches a second memory, memory devices such as hard disk (col. 3, lines 15-16) for storing the image of the object the image taking part takes, wherein the second memory output the image of the object, thus stored to the first memory which is system memory in CPU 1 as shown in the figure 1 of Fujiwara, successively.

Re claim 10, Fujiwara further teaches the second memory is prohibited from being outputted to the first memory (col. 3, lines 20-27); when image taking part which is two dimensional of the object, takes the image of the object in the state in which the projector projects the light on the points (P1-Pk of fig. 1) of the object (3 of fig. 1) with the predetermined pattern (col. 3, lines 45-58).

Conclusion

4. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

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however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tung T. Vo whose telephone number is (703) 308-5874. The examiner can normally be reached on 6:30 AM - 3:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chris. Kelley can be reached on (703) 305-4856. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9314.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-4700.

Tung T. Vo Examiner Art Unit 2613

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